#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Mail Stop: Petitions Branch

Andre VAN DYK : Docket No. 2004 1031A

Serial No. 10/500,705 : Confirmation No. 4374

Filed July 2, 2004

EXPLOSIVE PRESSURE WAVE CONCENTRATOR

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

#### PETITION UNDER 37 C.F.R. § 1.47(b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Petition is hereby made under 37 C.F.R. § 1.47(b) to be permitted to proceed with prosecution of the above-identified application absent the signature of the sole inventor, Andre Van Dyk. The grounds for the petition are set forth below and supported by the accompanying documentary evidence.

The U.S. firm of Wenderoth, Lind & Ponack, L.L.P. (Wenderoth) represents the applicant of the above-identified application and receives its instructions from McCallum Rademeyer & Freimond (McCallum), the South African attorneys for the assignee of the present application, NXCO International Limited.

As is evidenced from a letter from McCallum to Wenderoth dated December 6, 2004 (Exhibit A), unsuccessful attempts have been made to obtain the signature of Mr. Van Dyk on the Declaration. Attached correspondence from McCallum to Mr. Van Dyk dated July 26, 2004; September 2, 2004; September 20, 2004; October 14, 2004; December 14, 2004; and December 17, 2004 (Exhibit B) provides evidence that numerous attempts were made to have Mr. Van Dyk sign the Declaration, but that no response has been received from Mr. Van Dyk. In addition, the

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Petition Under 37 C.F.R. § 1.47(b) U.S. Application No. 10/500,705

correspondence in **Exhibit B** provides evidence that a full copy of the application was sent to Mr. Van Dyk along with the Declaration form for his signature.

As indicated in the letter from McCallum to Wenderoth dated December 6, 2004 (Exhibit A), at the time of the invention described in the above-identified application, Mr. Van Dyk was in the full time employment of NXCO Mining Technologies Ltd, a South African company owned by NXCO International Limited, and in terms of the corporate government rules, all inventions and other intellectual property vested in NXCO International Limited. Mr. Van Dyk signed such an agreement to this effect and, more pertinently, has assigned all rights in the above-identified application directly to NXCO International Limited by an Assignment of Patent Application dated December 5, 2002 (Exhibit C).

Accordingly, the Assignment of Patent Application dated December 5, 2002 (Exhibit C) establishes NXCO's proprietary interest in the above-identified application. Further, NXCO states that the filing of the above-identified patent application is necessary to preserve the rights of the parties and to prevent irreparable damage. On the enclosed Declaration, the general manager of NXCO International Limited, Mr. Edward Walenty Tota, has signed the Declaration on behalf of NXCO International Limited. Mr. Tota is an authorized representative of the corporation.

The refusing inventor's last known address is as follows:

Mr. Andre VAN DYK
223 Eland Street
Wierda Park
Centurion
0002 Pretoria
SOUTH AFRICA

Additionally attached hereto (**Exhibit D**) is a copy of the executed Declaration and Reply to Notification of Missing Requirements filed February 1, 2005.

Petition Under 37 C.F.R. § 1.47(b) U.S. Application No. 10/500,705

In view of the foregoing, it is believed that all of the necessary information has been provided which is necessary to grant this petition. The Special Program Examiner is invited to contact the undersigned by telephone if it is felt that there are any issues remaining which must be resolved before the granting of this petition.

A check for the petition fee of \$200.00 under 37 C.F.R. § 1.17(h) is attached.

Respectfully submitted,

Kenneth W. Fields

Registration No. 52,430

KWF/abm Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 February 1, 2005

# EXHIBIT A



Intellectual Property Law: Patents and Trade Marks

Physical Address: Maclyn House, 7 June Avenue, Randburg, Johannesburg

Telephone (011) 789-1046 Telefax (011) 787-4516 Docex 5 Randburg website: www.mrf.co.za e-mail: monty@mrf.co.za

Postal Address: Box 1130. Randburg. 2125, South Africa

#### URGENT BY FACSIMILE

6 December 2004

Wenderoth, Lind & Ponack, L.L.P. 2033 K Street N.W. Suite 800 Washington D.C. 20006 USA

Attention: Mr. M. Huppert

Dear Mr. Huppert

US National Phase Patent Application based on PCT/ZA02/00211 Entitled: EXPLOSIVE PRESSURE WAVE CONCENTRATOR

In the name of : NXCO INTERNATIONAL LIMITED

Wenderoth, Lind & Ponack L.L

Your Ref: 2004-1032A/MSH/00491

Our Ref; P.20317/MAJR

VANDYK

I refer to earlier correspondence regarding this application.

As you know the declaration is outstanding. The application was filed in the name of the invention Andre van Dyk and at all it has been the intention for the application to be assigned to NXCO International Limited of Saffrey Square, Suite 205, Bank Lane, Nassau, Bahamas.

The application has been filed on the instructions of NXCO and NXCO has met the cost thereof.

The American application is based on an international application which in turn claimed priority from a South African provisional patent application. The international application and the South African application were also filed in the name of Andre van Dyk but under the direction of NXCO.

Andre van Dyk was in the full time employment of NXCO Mining Technologies (Pty) Ltd a South African company owned by NXCO International Limited, and in terms of the corporate government rules all inventions and other intellectual property vested in NXCO International Limited. Andre van Dyk has signed an agreement to this effect and, more pertinently, in respect of the current invention and patent application, assigned all rights directly to NXCO International Limited in 2002.

A dispute has arisen between Andre van Dyk and NXCO Mining Technologies (Pty) Ltd. This does not have to do with ownership of the invention but with the alleged misuse and unauthorized appropriation by Andre van Dyk of assets and facilities belonging to NXCO Mining Technologies (Pty) Ltd. It is probably due to this dispute that Andre van Dyk has refused to sign the declaration and the assignment.

Please note that this application is one of five similar USA patent applications and in each instance the situation is the same.



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A number of letters have been directed to Andre van Dyk requesting him to sign the outstanding documentation but to no avail. No response at all has been received. Some of the letters were sent by registered mail. All letters have been accepted by the addressee and no letters have been returned.

Do you think the preceding information is adequate for the preparation of a petition to the patent office to overcome the lack of the declaration? Please let me have your comments.

I attach a copy of a typical assignment document, executed by Andre van Dyk, and ask whether this would be adequate to substantiate the claim of NXCO International Limited to ownership of the American patent application.

I look forward to hearing from you.

You should, at the same time, give me an estimate of the cost of preparing and filing the petition, and of recording the assignment.

Yours sincerely

McCALLUM RADEMEYER & FREIMOND

Per: M.A.J. RADEMEYER

# EXHIBIT B

Postal Address:

flox 1130, Randburg,

2125, South Africa

McCallum Rademeyer Intellectual Property Law: Patents and Trade Marks

Physical Address: Randburg, Johannesburg

Maclyn Hause, 7 June Avenue. Telephone (011) 789-1046 Telefax (011) 787-4516 Docex 5 Randburg website: www.mrti.co.za e-mail: monty@mrl.co.22

26 July 2004

Mr. A. van Dyk 223 Elands Street Wierda Park Centurion

Dear Mr. van Dyk

Our Ref: NXCO/MAJR

#### VARIOUS FORMS FOR SIGNATURE - NXCO USA PATENT APPLICATIONS

National phase patent applications, based on the international applications identified below. have recently been filed in the USA. As you are the named inventor I enclose, for signature by you, in respect of each application a declaration form and an assignment document. Please return the original signed forms to me as soon as possible.

I will shortly send you similar forms for the US national phase application based on PCT/ZA02/00209.

Yours sincerely

McCallum Rademeyer & Freimond Per: M.A.J. RADEMEYER

/jes

CC:

NXCO - Mr. E. Tota

USA National Phase Applications based on: PCT/ZA02/00208 PCT/ZA02/00210 PCT/ZA02/00211 PCT/ZA02/00212

Physical Address: Randburg, Johannesburg

Maclyn House, 7 June Avenue, Telephone (011) 789-1046 Telefax (011) 787-4516 Docex S Randburg website: www.mrf.co.za e-mail: moary@mrf.co.za

Postal Address: Box 1130, Randburg, 2125, South Africa

#### BY FACSIMILE 012 653 3603 CONFIRMATION BY MAIL

2 September 2004

Mr. A. van Dyk 223 Elands Street Wierda Park Centurion

Dear Sir

Our Ref: P20317/MAJR

US NATIONAL PHASE PATENT APPLICATION BASED ON PCT/ZA02/00211 **Entitled: EXPLOSIVE PRESSURE WAVE CONCENTRATOR** In the name of : NXCO INTERNATIONAL LIMITED

We refer to earlier correspondence regarding this patent application and again enclose a declaration and power of attorney form for use in this case, for signature by you, where indicated, and an assignment document, again, for signature by you, in terms whereof the application is assigned to NXCO International Limited.

We ask you please to sign the documents as a matter of urgency and to return the signed documents to us forthwith. If the documents are not duly signed the validity of the patent application will be placed in jeopardy.

Yours faithfully

McCALLUM RADEMEYER & FREIMOND Per: M.A.J. RADEMEYER



Intellectual Property Law: Patents and Trade Marks

Physical Address: Randburg, Johannesburg

Maclyn House, 7 June Avenue, Telephone (011) 789-1046 Telefax (011) 787-4516 Docex 5 Randburg website: www.mrf.co.za e-mail: monty@mrf.co.za

Postal Address: Box 1130, Randburg, 2125, South Africa

#### BY REGISTERED MAIL

20 September 2004

Mr. A. van Dyk 223 Elands Street Wierda Park Centurion

Dear Sir

Our Ref: P20317/MAJR

US NATIONAL PHASE PATENT APPLICATION BASED ON PCT/ZA02/00211 **Entitled: EXPLOSIVE PRESSURE WAVE CONCENTRATOR** In the name of : NXCO INTERNATIONAL LIMITED

We enclose a copy of our letter of 2 September 2004 and again enclose a declaration and power of attorney form, and an assignment document, for signature by you, in order to complete all of the formalities relating to this application. Please ensure that the signed documents are returned to us forthwith. As previously stated if the documents are not duly filed at the American patent office the validity of the patent application will be placed in jeopardy.

Yours faithfully

McCallum Rademeyer & Freimond Per: M.A.J. RADEMEYER

McCallum Rademeyer & FREI Intellectual Property Law: Patents and Trade N

Physical Address: Randburg, Johannesburg

Maciyn House, 7 June Avenue. Telephone (011) 789-1046 Telefax (011) 787-4516 Docex 5 Randburg website: www.mrf.co.zz e-mail: monty@mrf.co.xa

Postal Address: Box 1130, Randburg, 2125, South Africa

#### BY REGISTERED MAIL

14 October 2004

Mr. A. van Dyk 223 Elands Street Wierda Park Centurion

Dear Sir

Our Ref: P20293/MAJR

#### FIVE US NATIONAL PHASE PATENT APPLICATIONS BASED ON PCT APPLICATIONS In the name of : NXCO INTERNATIONAL LIMITED

We attach copies of our letters of 20 September 2004 and again call on you to sign the declaration/power of attorney forms and assignments forms, previously sent to you. These are urgently required for use in the American applications.

If the forms are not timeously filed the validity of the American applications will be placed in jeopardy. This will be due purely to your actions, or lack of action, and our client will have no alternative but to hold you accountable for its losses.

Yours faithfully

McCALLUM RADEMEYER & FREIMOND Per. M.A.J. RADEMEYER

â

#### monty

From:

monty [monty@mrf.co.za]

Sent: To: Friday, December 17, 2004 09:04

Subject:

'aor@wol.co.za'
FW: URGENT - US APPLICATIONS













INT1076 Andre van INT1072 Andre van INT1073 Andre van INT1074 Andre van INT1075 Andre van P20309 Jones P20301 declaration Dyk.doc (51 ... Dyk.doc (63 ... Dyk.doc (52 ... Dyk.doc (94 ... Dyk.doc (120... assignment.doc (3... and power o...















P20301 Jones P20309 declaration >20325 Forms page P20293 Forms.jpg P20293 Forms - >20317 Forms page >20317 Forms page assignment.doc (3... and power o... 5 of 5.jpg (... (346 KB) 2.jpg (243 KB) 1 of 5.jpg (... 2 of 5.jpg (...















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McCallum Rademeyer & Freimond

Intellectual Property Law Specialists

Tel: +27 11 789 1046 Fax: +27 11 787 4516

monty@mrf.co.za

This e-mail may be confidential and/or privileged. Only the intended recipient may access or use it. If you are not the intended recipient, please delete this e-mail and notify us promptly. We use virus scanning software but exclude all liability for viruses or similar in any attachment.

Please acknowledge or reply to this e-mail promptly.

----Original Message----

From: monty [mailto:monty@mrf.co.za]
Sent: Tuesday, December 14, 2004 10:15

To: 'aor@mweb.co.za'

Subject: URGENT - US APPLICATIONS

Attention: Mr. Andre van Dyk

This is a final attempt to ask for your cooperation in completing the filing requirements for the American patent applications.

We again enclose:

a) a full copy of each specification and claims;

b) a declaration/power of attorney form for each case for signature by you; and

c) an assignment document for each case for signature by you.

Please sign the fo (b) and (c) and fax copies the to us by return. The original signed for should be posted to us.

If we do not have the forms by 17 December 2004 we will be compelled to instruct our correspondent, for each application, to file a petition at the US Patent Office in order to regularize the matter. This will cost a significant amount and, as previously stated, NXCO will thereafter proceed to recover costs from you.

Yours sincerely

Monty Rademeyer

McCallum Rademeyer & Freimond Intellectual Property Law Specialists Tel: +27 11 789 1046 Fax: +27 11 787 4516 monty@mrf.co.za

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Version: 6.0.809 / Virus Database: 551 - Release Date: 12/9/2004

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Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.816 / Virus Database: 554 - Release Date: 12/14/2004

# EXHIBIT C

. . . .





#### McCALLUM, RADEMEYER & FREIMOND **REF: INT.1075**

#### ASSIGNMENT OF PATENT APPLICATION

THIS DEED WITNESSES:

- (1) THAT:
  - (a) THE ASSIGNOR(S) Is/are

VAN DYK, Andre of 223 Eland Street, Wierda Park, Centurion, Pretoria, 0002, South Africa

THE ASSIGNEE(S) is/are (b)

NXCO INTERNATIONAL LIMITED of Saffrey Square,

Suite 205, Bank Lane, Nassau, Bahamas.

THE INVENTION is an Invention entitled (c) Pressure EXPLOSIVE SHOCKWAVE CONCENTRATOR

(now allocated)

- THE PATENT APPLICATION is International Patent Application(No. PCT/ZA02/00211) (d) in respect of THE INVENTION:
- (2) THAT THE ASSIGNOR(S) hereby assign(s) to the ASSIGNEE(S), in respect of all countries:
  - THE PATENT APPLICATION,
  - THE INVENTION, and (b)
  - the right to apply for patents in respect of THE INVENTION (c) the assignment taking effect on the filing date of the PATENT APPLICATION
- (3) AND THAT THE ASSIGNOR(S) hereby undertake(s) to execute all documents that may be required to make this assignment effective, to effect registration of THE PATENT APPLICATION In the name of the ASSIGNEE(S), and to enable THE ASSIGNEE(S) to apply for patents anywhere based on the PATENT APPLICATION, all at the expense of THE ASSIGNEE(S).

Signed by THE ASSIGNOR(S) at ...

itnessed)

# EXHIBIT D

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Confirmation No. 4374

Andre VAN DYK : Mail Stop: PCT

Serial No. 10/500,705 : Attorney Docket No. 2004\_1032A

Filed July 2, 2004

EXPLOSIVE PRESSURE WAVE CONCENTRATOR [Corresponding to PCT/ZA02/00211 Filed December 17, 2002]



## REPLY TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 USC 371

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the PTO Notification of Missing Requirements Under 35 USC 371 dated November 1, 2004, submitted herewith is a Declaration for the above application executed by the inventors.

Also enclosed are the PTO surcharge of \$65.00 required by 37 CFR 1.492(e), and a copy of the PTO notice.

It is respectfully submitted that the application is now complete, and early indication thereof is now requested.

Respectfully submitted,

Andre VAN DYK

Kenneth W. Fields

Registration No. 52,430 Attorney for Applicant

KWF/abm Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 February 1, 2005



Ros. 1-10-03

Effectivo March 1998

### DECLARATION AND POWER OF ATTORNEY FOR U.S. PATENT APPLICATION

O Original O Supplemental O Substitute (2) PCT O DESIGN

As a below mand inventor, I muchy declare then my reddenest post office address and charactely are so tuned being next to my name; that I verily believe that I am the criginal, first and sale inventor (if only one name is listed below) or an original, that and joint inventor (if placed inventors are named below) of the subject matter which is claimed and for which a patent is 1995th on the invention entitled:

#### THE DAY OSIVE PERSSIER WAVE CONCENTRATOR

of which is described and elaimed in:		
O the state ded specification, or O the specification in application Scainl No	filed	and with summanus
direngh or (A) the specification to International Application	og No. PCT/ZACA/GCALL, filed Descript	57 17, 2002, and as anunded on .01
emijespis).		

I besidy state that I have reviewed and undocated the content of the above-identified specification, including the claims, as amended by any amandment(s) referred to above.

I acknowledge my dany to discious to the Panne and Trademark Office all information descent us me to be material to patentability at delined in Title 37. Code of Redemi Regulations, \$1.56.

I benedy claim priority bounded under Title 95, United States Code, \$119 (and \$172 if this application is for a Dadiga) of any abhypotrica(7) for because or inscript, a certificate giving poton my pass of suring poton mis abiquomine for barear or inscrime, a confidence baving a filing date before then of the application on which priority is claimed:

COUNTRY	Application no.	DATE OF SILING	PRIORITY
South Africa	2001/5467	January 3, 2002	YES
South Africa	2001/5465	January 3, 2002	YES
South Africa	2011/5463	January 3, 2002	YES
South Alties	2001/5463	Jamesry 3, 2002	YRS
South Africa	2001/5461	January 3, 2002	YES
South Africa	2001/5458	January 3, 2002	YES

I hereby claim the benefit under This 35. United States Code \$120 of any United States application(s) lineal below and, insufar as the subject marker of each of the claims of this application is not disclosed in the prior United States application in the manor provided by the fire paragraph of Trace 35. United States Code \$112, I adminished be day to discloss information material to paragraph as defined in Tiple 97, Code of Pederal Degratations, \$1.56 which occurred boxwood the filling date of the prior application and the national or PCT international filing theo of this applications

JAN-25-2005 10:07



Application Serial No.	u.s. filing dàte	STATUS: PATENTED, PRINDING, ARANDONES

And I haveby appoint Michael R. Davis, Rag. No. 25,194; Mannew M. Isrod, Rag. No. 25,154; Warren M. Chaok, Ir., Rag. No. 33,367; Nill Pederson, Reg. No. 33,145; Charles R. Watte, Reg. No. 33,142; Michael E. Huppert, Reg. No. 40,268; and Jeffrey R. Pillpek, Rag. No. 41,471, who magnifest constitute the firm of WENDEROTH, LIND & PONACK, L.L.P., as well as any other emothery. and agency sessed with Customer No. 0011313, to prosecute this application and to manage all business in the U.S. Parson and Tendemark Office connected therewill.

I bendby authorize the U.S. altomeys and agrams sesped herein to accept and follow instructions from McCollang, Rademayer & Frantson as so may section to be extrem in the U.S. Posses and Trademark Office regarding this application without digital communication because the U.S. afterways and myself. In the event of a change in the persons from whem instructions may be taken, the U.S. attendity named herein will be so whithed by me.

Direct Correspondence to	,	Direct Telephone Calle in:	
	CUSTOMER NO. 000513		Westcherfter, Lind & Fonack L.L.P. 203 F. Street M.W. Emip 500 Vontington, D.C. 20005-1021 Presentation 721-2200 Presentation 721-2200
Full Name of First Inventor	RAMINGAME VAN DYK	Andre	INCLUSIVE MARCE
Besidanea & Clázenshúp	civ Pretoria	ymane on communication of the same of the	South Africa
Post Office Address	America 223 Eland Street,	Wierda Park, Cambr	ion, 0002 Protoria, South Africa
Full Name of Second Inventor	ZAMILY KAMÇ	Alst GVZI XAMI	MECHIN CLASS WORL
Residence & Citivenship	слу	ZTATE OR COUNTRY	COUNTRY OF CREEDSHIP
Pact Office Address	ADDRESS	απν	STATE OR COUNTRY ETF COME

I further declare that all announces made become of my own knowledge are true, and that all statements on information and belief are believed to be true; and finther that these statements were made with the knowledge that within take statements and the like so useds are punishable by fine or Imprinounced, or both, under Section 1001 of Title 18 of the United States Code, and that such willful fulse sentences may jeopardize the validity of the application or any pount izating thereon.

Further, as noted in the attached perition, one to the sale inventor's refuted to algo the Doclaration, the application, NXCO international Limited, is acting so the 37 C.P.R. 1.47(b) applicant. Acting as the authorized agent of NXCO international Limited is Edward Walsony Tora, the General Manager of NKCO international Limited, who is signing the Declaration on behalf of the son-signing investor.

Page 2 of 3.

VALUE NAME

TOTA

VINET GIVER BANCE

Edward

SECOND CIVEN NAMES Welenty

General Manager of NXCO International Limited Suffrey Square, Suite 205, Bank Lane, Nassau, Behamas Post Office Address

37 CFR 1.47(b) Applicant Signing on Behalf of Non-

Signing Inventor

Tiple

Hall Name of Person Mening on Hedral of

Non-Signing Inventor

Date 24 January 2005

The above application may be more particularly identified as follows: U.S. Application Social No. 10/500,705 Filing Date July 2, 2004

Applicant Reference Number P.20317/MAIR Any Docket No. 2004-10324

Tille of Invention EXPLOSIVE PRESSURE WAVE CONCENTRATOR

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